Application No.	Applicant(s)	
	RAPHAELI, DAN Art Unit	
Examiner	Artonic	
Curtis B. Odom	2634	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Amdt filed on 2/11/2005</u> .		
2. The allowed claim(s) is/are <u>1-77</u> .		
3. The drawings filed on <u>09 November 2004</u> are accepted by the Examiner.		
 4.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
6. ⊠ Interview Summary Paper No./Mail Da), 7. ⊠ Examiner's Amendr	te .	
	OR REMAINS) CLOSED in this appropriate communication HTS. This application is subject to and MPEP 1308. Deen received. Deen received in Application No	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Howard Zaretsky on April 7, 2005.

The application has been amended as follows:

Claim 22 (currently amended). The method according to claim 1, wherein said steps of

calculating, selecting, removing, correlating, and estimating are performed in a non-sequential

symbol order.

EXAMINER'S STATEMENTS OF REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: Claims 1-24 and 55-

77 are allowable over prior art references because related references do not disclose calculating

an impulse response of previously estimated symbols using a channel impulse response and

previously estimated decisions, removing an influence of previously estimated symbols from the

received signal to generate a modified received signal, and correlating the modified received

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signal with the channel impulse response to obtain a correlation for each symbol. Claims 25-54 are allowable over prior art references because related references do not disclose removing an influence of previously estimated symbols from the received signal to generate a modified received signal, correlating the modified received signal with the channel impulse response to obtain a correlation for each symbol, calculating a cross-correlation coefficient matrix and inverse matrix determinant based on a channel estimate, using the cross-correlation matrix to calculate a current symbol decision, and quantizing the current symbol decision.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Curtis B. Odom whose telephone number is 571-272-3046. The examiner can normally be reached on Monday- Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Curtis Odom April 7, 2005

STEPHEN CHIN

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